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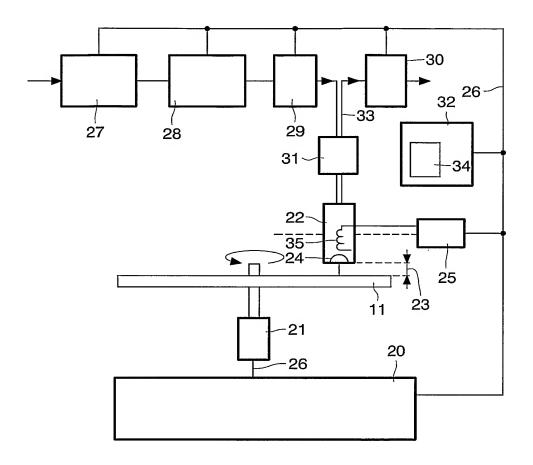
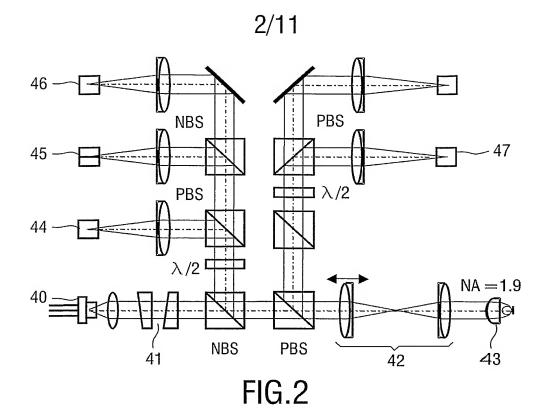


FIG.1



50 1 0.9 NA = 2.0NA = 1.88.0 NA = 1.40.7 NA = 2.0NA = 1.80.6 Reflection NA = 1.40.5 53 0.4 54 0.3 NA = 2.0 NA = 1.8 NA = 1.455 0.2 52 0.1 0 150 300 0 50 100 200 250 350 400 450 500 Air gap size (nm)

FIG.3

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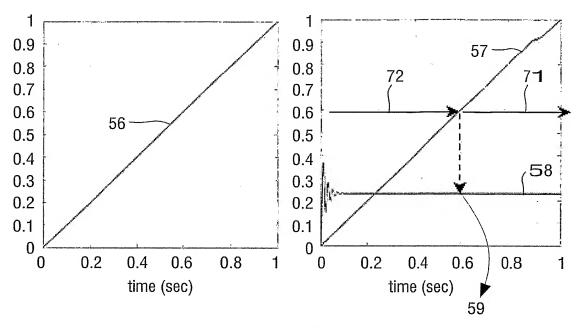


FIG.4

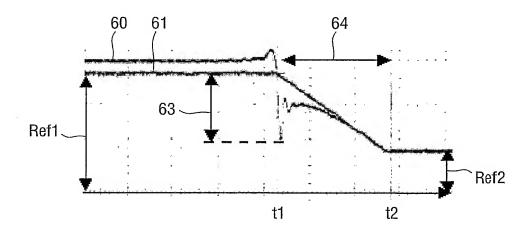


FIG.5

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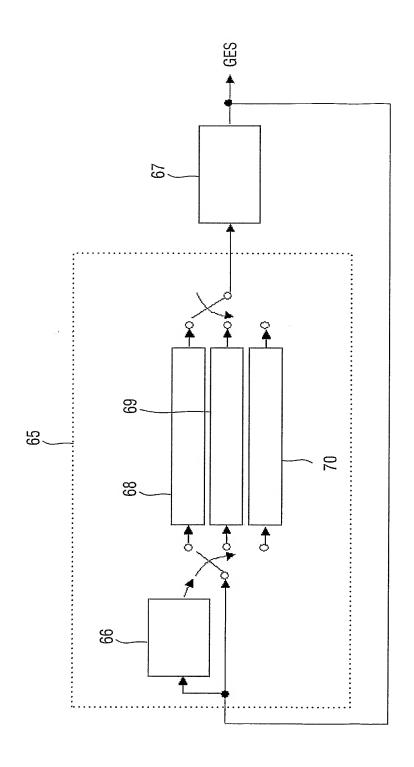
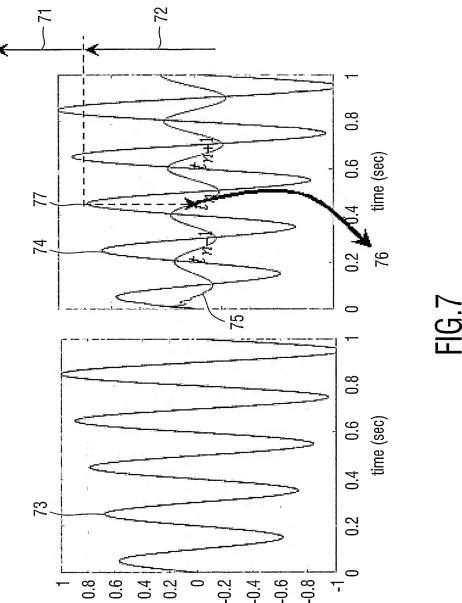
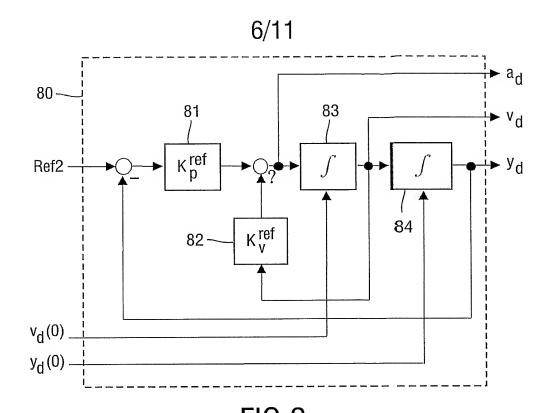


FIG.6

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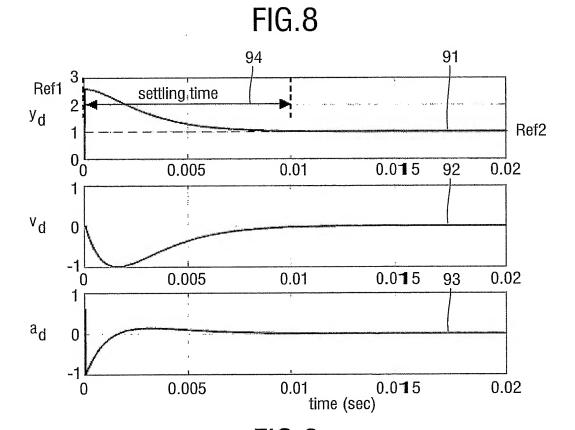
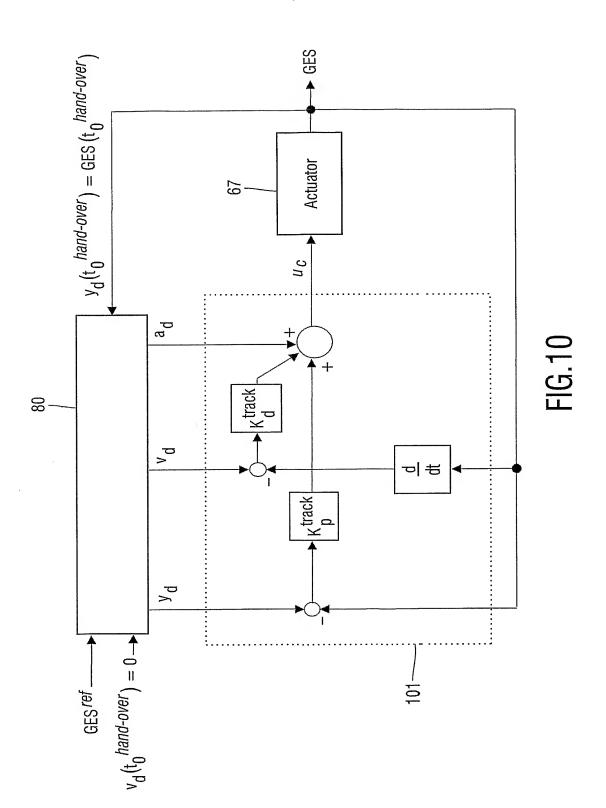
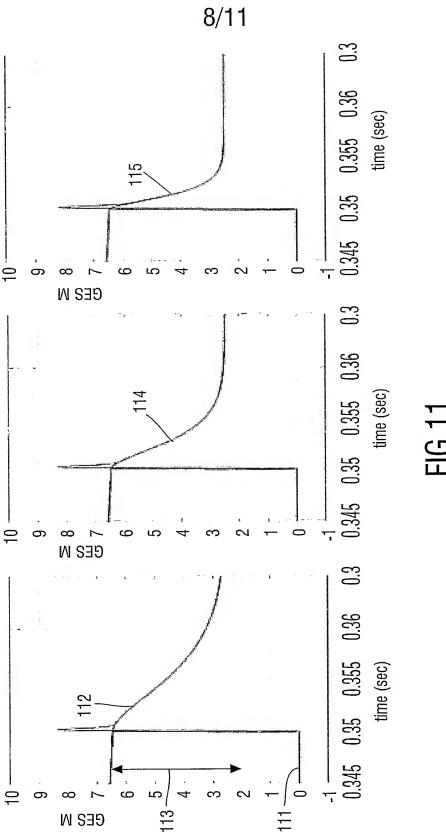
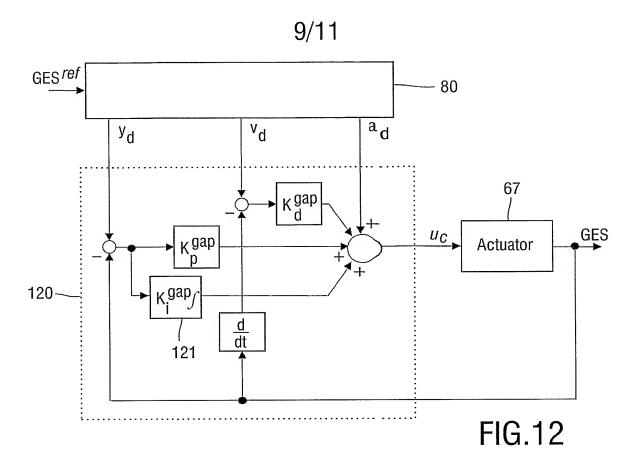


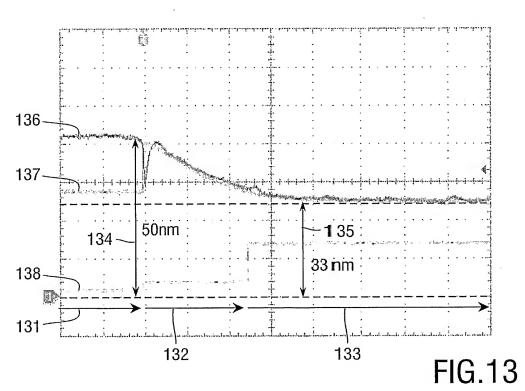
FIG.9

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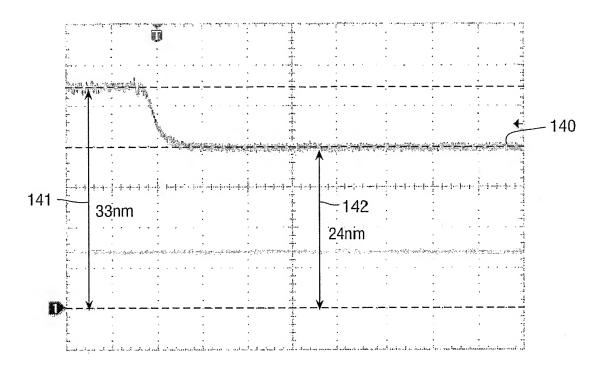


FIG.14



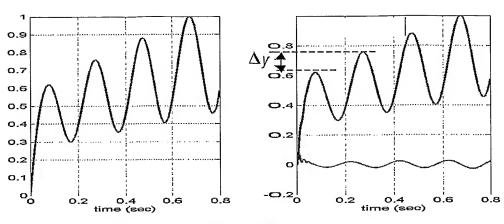


FIG.15A

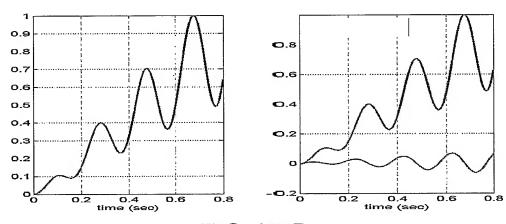


FIG.15B

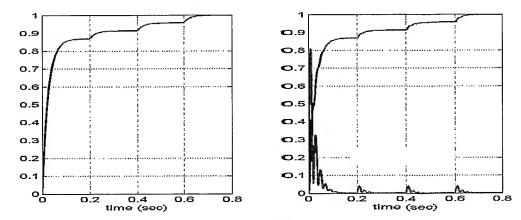


FIG.15C